

We Claim

1. A kit for carrying out a nucleic acid amplification reaction, wherein said kit comprises a pair of primers, wherein a least one primer of said pair contains a modified nucleotide within the three 3' terminal nucleotide positions; wherein said
5 modified nucleotide is selected from the group consisting of 2'-O-methyl nucleotides, 2'-fluoro-nucleotides, 2'-amino nucleotides, and arabinose nucleotides.

2. A kit of claim 1, wherein said modified nucleotide is a 2'-O-methyl
10 nucleotide.

3. A kit of claim 1, wherein said modified nucleotide is a 2'-fluoro-
nucleotide.

4. A kit of claim 1, wherein said modified nucleotide is a 2'-amino
15 nucleotide.

5. A kit of claim 1, wherein said modified nucleotide is an arabinose
nucleotide.

6. The kit of claim 2, wherein said modified nucleotide is at the 3'
20 terminal position.

7. The kit of claim 3, wherein said modified nucleotide is at the 3'
terminal position.
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8. The kit of claim 4, wherein said modified nucleotide is at the 3'
terminal position.

9. The kit of claim 5, wherein said modified nucleotide is at the 3'
30 terminal position.

10. A kit of claim 1, wherein each primer of said pair of primers independently contains a modified nucleotide within the three 3' terminal nucleotide positions; wherein said modified nucleotide is selected from the group consisting of 2'-O-methyl nucleotides, 2'-fluoro-nucleotides, 2'-amino nucleotides, and arabinose nucleotides.

11. A method for amplifying a nucleic acid target sequence, wherein said method comprises carrying out a primer-based amplification reaction in a reaction mixture comprising a pair of primers, wherein a least one primer of said pair contains a modified nucleotide within the three 3' terminal nucleotide positions; wherein said modified nucleotide is selected from the group consisting of 2'-O-methyl nucleotides, 2'-fluoro-nucleotides, 2'-amino nucleotides, and arabinose nucleotides.

12. The method of claim 11, wherein said modified nucleotide is a 2'-O-methyl nucleotide.

13. The method of claim 11, wherein said modified nucleotide is a 2'-fluoro-nucleotide.

14. The method of claim 11, wherein said modified nucleotide is a 2'-amino nucleotide.

15. The method of claim 11, wherein said modified nucleotide is an arabinose nucleotide.

16. The method claim 12, wherein said modified nucleotide is at the 3' terminal position.

17. The method claim 13, wherein said modified nucleotide is at the 3' terminal position.

18. The method claim 14, wherein said modified nucleotide is at the 3' terminal position.

19. The method claim 15, wherein said modified nucleotide is at the 3' terminal position.

20. A method of claim 11, wherein each primer of said pair of primers independently contains a modified nucleotide within the three 3' terminal nucleotide positions; wherein said modified nucleotide is selected from the group consisting of 2'-O-methyl nucleotides, 2'-fluoro-nucleotides, 2'-amino nucleotides, and arabinose nucleotides.